UNIVERSITY OF BIRMINGHAM DUBAI

BSc COMPUTER SCIENCE

Computer Science at the University of Birmingham dates back to the 1950s. We provide specialist teaching and conduct cutting-edge research in many areas including Intelligent Systems (Machine Learning and Robotics), Cyber Security, Theoretical Computer Science and Human-Centred Computing. Our academic community consists of people working at the forefront of their subjects.

- **Computer Science BSc (Hons) – Three years**
- **Computer Science BSc (Hons) with integrated foundation year – Four years**

What will you study?

Our Computer Science BSc (Hons) programme will provide you with a balance of general computer science, practical software engineering, and more specialised areas such as artificial intelligence and cyber security. It will focus on analytical methods and technical skills and offer you the opportunity to combine knowledge and personal skills to undertake the research and development of software solutions to problems.

You will learn about different comprehensive aspects of computational systems, their theory, design, development and application. The degree incorporates concepts from fields as diverse as mathematics, engineering, linguistics and psychology.

Our research feeds directly into your teaching, ensuring your programme includes the latest developments in computer science.

93%
GRADUATE EMPLOYABILITY*

*Destinations of Leavers from Higher Education 2016/17

BSc COMPUTER SCIENCE

Year 0 (the Integrated Foundation Year)

Our four-year undergraduate programme includes an integrated foundation year, which you may need to take depending on your previous studies. The foundation programme is equivalent in learning to Year 13 of the UK education system. Successful completion of the Foundation Year will also guarantee you progression onto the Computer Science BSc (Hons) programme.

As part of the integrated foundation year, you will study Properties of Matter, Electronic and Electrical Engineering, Introductory Computer Science, Mathematics and Academic English and Study Skills. These modules have been designed to provide you with a solid foundation in relevant subjects whilst supporting your English language and study skills, preparing you to move on to the next stage of your chosen degree programme. We will ensure you are fully prepared for your undergraduate programme, immersing you into the University environment.

Year 1

The first year provides a fundamental grounding in computer science. You'll be given a firm foundation in the principles of algorithms, programming, artificial intelligence and relevant maths. Even as early as the first year, you'll be given a chance to pursue specialist interests, including robot programming and image processing. These include practical work and group work as part of our commitment to preparing you for the real world.

Year 2

You'll move on to develop in-depth knowledge in computer science by studying software engineering, low-level system programming, mathematical modelling and decision making, and security and networks. In addition, you will work on a team project to learn how to work with team members to develop a large software system or solution.

Year 3

In the final year, you will obtain a huge amount of training and experience so you can maximise on your degree to achieve your ambitions and interests. You'll study human-computer interaction, advanced networking, programming language design, machine learning and intelligent data analysis. You'll spend one-third of your time on a software or research project, selected by the mutual interest of you and your supervisor. This also involves writing a large 60-page report detailing the work conducted.

How will you be taught?

- Our highly regarded teaching employs a mixture of lectures, tutorials, exercise classes, lab work, projects and independent study
- There is a strong emphasis on project work within your study
- Assessment methods include examinations, essays, oral and poster presentations, computer-based tests, marked exercises, class tests and laboratory and project reports

Why study with us?

- The broad range of skills you will gain means you could choose to work for a technology consultancy or a global IT company. You may also pursue opportunities in investment and banking, software development and finance, or join one of many emerging start-up companies.
- Subject to academic attainment, you could spend your second year studying at the University's picturesque campus in Edgbaston, Birmingham.
- 91% of our final-year students expressed overall satisfaction with their programme (National Student Survey 2017).

Graduate career destinations have included:

- Accenture
- Apple
- BUPA
- Expedia.com
- Goldman Sachs
- Google
- HP
- IBM
- PwC

8TH

WE ARE RANKED 8TH IN THE UK ACCORDING TO *THE TIMES AND THE SUNDAY TIMES GOOD UNIVERSITY GUIDE 2018*

Get in touch

If you'd like to talk to us, or join our Applicant Facebook Group and talk to our students, please contact: **eps-dubai-admissions@contacts.bham.ac.uk**

For details on entry requirements, fees and how to apply, please visit our webpages: **www.birmingham.ac.uk/dubai-study**